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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/801,072	03/06/2001	Robert Olan Keith JR.	ABREAU-00101	5080

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EXAMINER

NGUYEN, CAM LINH T

ART UNIT	PAPER NUMBER
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2161

DATE MAILED: 01/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/801,072	Applicant(s) KEITH, ROBERT OLAN	
	Examiner CamLinh Nguyen	Art Unit 2161	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 08 November 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-49 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-49 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's amendments to claims 1 – 49 are acknowledged. Currently, claims 1 – 49 are pending.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 – 40, 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Witek et al (U.S. 6,253,188) in view of Botto et al (U.S. 5,604,772).

◆ As per claim 14,

Witek teaches a method of performing a research task within a searchable database comprising:

- “A searchable database” corresponds to database server (See Fig. 4, col. 11, lines 20 – 25, col. 18, lines 1 – 32)
 - “A search module” corresponds to the search engine that implemented in Fig. 1.
 - “A search criteria” corresponds to arguments or selections that user enters in Fig. 7, element 112.
 - “One or more matching items” corresponds to the results that sent to user (Fig. 7, element 126 – 128).
 - “The search module includes keyword search” See Fig. 10, element 148, col. 29, lines 28 – 34.

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- “A hierarchical search” corresponds to “category search” because the categories include subcategories that organized in a hierarchical order. See Fig. 4, col. 31, lines 4 – 11.
- “A parametric search” See Fig. 10, elements 154, 158, 160, 142, col. 30, lines 10 – 29.

The Examiner takes Official Notice that it is well known for one skill in the art to implement a search module that includes the availability of each search methodologies. “A search module” must be implemented in Witek invention in order for the system to carry out the processing.

The Witek reference fails to disclose the dichotomous key search. However, this method search is a well known in the art. Botto provides an example of it.

Botto teaches that a dichotomous key search is used to search for data in the database 112, wherein the database is a hierarchical database (See Fig. 5, col. 5, lines 26 – 29).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Botto into the invention of Witek because the combination would reduce the memory access when using binary search, and providing user more search methodologies.

◆ As per claim 1, 27, 37,

Witek/Botto teach a method of performing a research task within a searchable database as described in claim 14, further claims 1, 27, 37 comprising:

- “Utilizing a search module to correlate a search criteria to a searchable database for generating one or more matching items, wherein each matching item corresponds to a

segment of the searchable database, further wherein the search module includes keyword search, hierarchical search...” See Fig. 1, 7,10. In particular:

- “A search module” corresponds to the search engine that implemented in Fig. 1.
- “A search criteria” corresponds to arguments or selections that user enters in Fig. 7, element 112.
- “A searchable database” corresponds to database server (Fig. 1, element 20, col. 9, lines 53 – 55)
- “One or more matching items” corresponds to the results that sent to user (Fig. 7, element 126 – 128).
- “The search module includes keyword search” See Fig. 10, element 148, col. 29, lines 28 – 34.
- “A hierarchical search” corresponds to “category search” because the categories include subcategories that organized in a hierarchical order. See Fig. 4, col. 31, lines 4 – 11.
- “A dichotomous key search” See Fig. 3, element 70, col. 16, lines 27 – 50, Fig. 10, element 144 – 146. As defined in the Specification a “dichotomous key search” is used to instruct users given in an answer or question dialog, often yes or no answer (Specification, page 18, lines 6 – 8). In fig. 10, Witek also gives the users the options of answer questions by checking the boxes. Therefore, this search option is corresponding to the “dichotomous key search”.
- “A parametric search” See Fig. 10, elements 154, 158, 160, 142, col. 30, lines 10 – 29.

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- “Utilizing the search module to correlate a subsequent search criteria to one or more matching items for generating one or more subsequent matching item ... search criteria”

See col. 12, lines 28 – 43.

The Examiner takes Official Notice that it is well known for one skill in the art to implement a search module that includes the availability of each search methodologies. “A search module” must be implemented in Witek invention in order for the system to carry out the processing.

◆ As per claim 2, 15, Witek/Botto teach

- “The search criteria is one or more keywords input by a user” See Fig. 10, element 148, col. 29, lines 28 – 34.

◆ As per claim 3, 16, Witek/Botto teach

- “The utilized search methodology is the hierarchical search, the search criteria is selected one of a list of one or more directory items” “A hierarchical search” corresponds to “category search” because the categories include subcategories that organized in a hierarchical order. See Fig. 4, 6 – 7, col. 31, lines 4 – 11.

◆ As per claims 4 – 5, 17 – 18, Witek/Botto teach

- “The utilized search methodology is the dichotomous key, the search criteria is a selected one of two binary items” See Fig. 3, element 70, col. 16, lines 27 – 50, Fig. 10, element 144 – 146. As defined in the Specification a “dichotomous key search” is used to instruct users given in an answer or question dialog, often yes or no answer (Specification, page 18, lines 6 – 8). In fig. 10, Witek also gives the users the options of answer questions by checking the boxes. Therefore, this search option is corresponding to the “dichotomous key search”.

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- “The utilized search methodology is the parametric search, the search criteria is one or more set parameters, and further wherein the parameters are set by a user” See Fig. 10, elements 154, 158, 160, 142, col. 30, lines 10 – 29. As shown in Fig. 10, a user can set the values for parameters such as date, the range price, or number of room.
- ◆ As per claim 6, 19, 31, 39, Witek/Botto teach
 - “The searchable database is distributed into more than one physical location” See Fig. 1, element 20, col. 9, lines 53 – col. 10, lines 5, col. 25, lines 37 – 44.
- ◆ As per claim 7 – 9, 20 – 22, 28 – 30, 38, Witek/Botto teach
 - “The steps of utilizing the search methodologies are performed by a server” See Fig. 1, 5A, col. 25, lines 13 – 33.
 - “Establishing an Internet connection with the server to utilize the search methodologies” See Fig. 5a, element 14, 24, col. 21, lines 15 – 20.
- ◆ As per claim 10 – 11, 23 – 24, 32 – 33, 40, Witek/Botto teach
 - “The searchable database is formatted in a directory tree structure” See Fig. 4, col. 18, lines 1 – 32.
 - “The directory tree structure includes nodes ... branches” See fig. 4. Each category corresponds to a node. All nodes are linked together.
 - “The collection of related data for a particular node is displayed in an encyclopedia like format, wherein the encyclopedia like format includes text, graphics, and links to related topics” See Fig. 8 – 10, col. 23, lines 44 – 48, col. 24, lines 10 – 16.
- ◆ As per claim 12 – 13, 25 – 26, 34 – 36, Witek/Botto teach

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- “Maintaining the node by appropriately adding and deleting data to and from the node”

See col. 50, lines 4 – 15.

- “ The step of maintaining the node is performed by a node owner” See Fig. 14, col. 50, lines 4 – 15. “ A node owner” corresponds to the system administrator.

♦ As per claim 42, Witek/Botto teach

Claim 42 is rejected based on the rejection of claim 1, 10 – 13.

4. Claims 41, 43 – 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Witek et al (U.S. 6,253,188) in view of Botto et al (U.S. 5,604,772) as applied to claims above further in view of Drucker et al (U.S. 6,292,796).

♦ As per claim 41, 43 – 45, 47 – 48,

As previous noted above, Witek/Botto teach a method for searching documents stored in a directory hierarchy structure. Witek uses a keyword, parameter, categories, and dichotomous searches methods to search for a document (See Fig.10, Witek).

The database of Witek is formatted in a tree structure (Fig. 4), comprising nodes, and related data is corresponding to each category (col. 18, lines 1 – 32.).

“Categorizing each item of data by a navigation path through the directory tree structure and by one or more parameters” see Fig. 14 – 15, Witek.

Witek/Botto do not clearly disclose the method of setting a notification signal by saving the query string, and notifying a user of new data entered into the search databases. However, Drucker et al (U.S. 6,292,796), discloses a method for searching documents in databases using keywords, category, parameters, and even allows user select options for the result such as

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genders (See Fig. 1, Drucker). Users can setup the query search and save as user profile to be searched (See Fig. 4, element 404, col. 7, lines 54 – 65, Drucker). The system of Drucker includes a notification module to notify users when a new data or document available (col. 7 line 54 – 59, Drucker), and display the result to users when users request (fig. 4, element 420, col. 9 line 1 – 2, Drucker).

It would have been obvious to one with ordinary skill in the art at the time the invention was made to apply the teaching of Drucker about the notification system into the system of Witek/Botto, because the system of Drucker provides a great benefits in saving time for users (col. 1 line 56 – 58, Drucker). The combination of Drucker and Witek produces a convenience search engine for the user, where the user does not familiar with the system and does not have a lot of time for a search query.

♦ As per claim 46, 49,

- “The collection of related data for a particular node is displayed in an encyclopedia like format, wherein the encyclopedia like format includes text, graphics, and links to related topics” See Fig. 8 – 10, col. 23, lines 44 – 48, col. 24, lines 10 – 16, Witek.

Response to Arguments

5. Applicant's arguments with respect to claims 1 - 49 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CamLinh Nguyen whose telephone number is (571) 272 - 4024. The examiner can normally be reached on Monday-Friday.

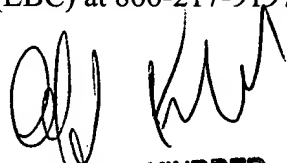
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on (571) 272 - 4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Nguyen, Cam-Linh

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ALFORD KINDRED
PRIMARY EXAMINER